

Title: Method and System for Processing Invoices**Field of the Invention**

5 This invention relates to a system and method for
facilitating online commerce over a public network such as
the Internet or an interactive T.V. cable network. More
particularly, this invention relates to a system and method
for conducting online processing of an invoice including
10 multi-stage invoice handling capabilities.

Background of the Invention

15 Online commerce has experienced dramatic growth in
recent years and this growth is expected to continue into
the coming decades. Internet service providers are, more and
more, connecting users to the Internet at no cost, thus
eliminating barriers to an Internet connection. At the same
time, merchants are increasingly developing sites on the
20 World Wide Web (or simply "WWW" or "Web") that customers can
access to order goods and/or services. It is now fairly
common for a customer to browse a merchant's catalogue,
select a product or service and place an order for the
product/service all electronically over the Internet.
25 Similarly, it is becoming increasingly common for merchants
to allow payment of invoices electronically. Typically, the
invoice is sent electronically to the customer via
electronic mail or made available to the customer over a
network by providing the customer with network access
30 capability.

U.S. Patent 6,128,603 issued to Dent et al. on October 3, 2000) describes a consumer-based system for analyzing, managing and paying electronic bill statements received from a biller. The biller electronically transmits a customized statement to a consumer's computer terminal over the Internet. The biller's electronic bill is presented to the consumer through a user interface. After reviewing the electronic bill the consumer can enter how much of the bill to pay, from which account to pay from, and the desired payment date. The entered information is then transmitted to the biller for processing. The contents of U.S. Patent 6,128,603 are incorporated herein by reference.

Similarly, U.S. Patent 6,070,150, issued to Remington et al. on May 30, 2000, describes an electronic payment system in which a biller electronically transmits a bill to a consumer over the Internet. The bill may arrive at the consumer's terminal via email or a notification for the consumer to check a billing mailbox. The consumer receives the bill that can be displayed in the form of a user interface. After reviewing the bill the consumer is able to enter the amount to be paid, the date of payment and from which account the money can be taken. The system described in Remington et al. also includes the ability to let the consumer dispute an item in an invoice. The contents of U.S. Patent 6,070,150 are incorporated herein by reference.

A deficiency with the above-described systems for the payment electronic of invoices is that they are ill suited to certain business-to-business environments. In a typical business setting, it is not uncommon for several people to be involved at different stages in the handling of an

invoice such as, for example, a division manager, a clerk in the accounts payable department and the manager of the accounts payable department. In these situations, the invoice is typically printed at the division manager's office, approved by the division manager and forwarded by internal mail (or e-mail) to the accounts payable department where one or more individuals authorize the payment to be made. This process is time consuming and often results in delays in the payment of an invoice.

Consequently there exists a need in the industry to provide an improved system and method for processing invoices that alleviates at least in part the deficiencies of prior art systems and methods.

Summary

In accordance with a broad aspect, the invention provides a method for electronically presenting and granting payment of invoices. The method includes generating an invoice at a biller and making the invoice electronically available to a customer entity. A first user associated to the customer entity is enabled to approve the invoice and a second user associated to the customer entity is enabled to authorize payment of the invoice, the second user being distinct from the first user. A data element indicating that payment of the invoice has been approved is transmitted from the first user to the biller. Another data element indicating that payment of the invoice has been authorized is transmitted from the second user to the biller. The granting of payment of the invoice is detected at the biller

when payment of the invoice has been approved and authorized.

5 An advantage of the present invention is that it allows a customer entity to obtain account information without interacting with a person at the biller's location.

10 Another advantage of the present invention is that it facilitates the involvement of several individuals in the handling of an invoice.

15 Another advantage of the present invention is that it allows for at least two individuals to be consulted at different stages of the payment of an invoice such as at the approval stage and at the authorization stage. It will be readily appreciated that more than two stages may be present and more than two individuals may be involved in the handling of an invoice without detracting from the spirit of the invention.

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In a specific implementation, the data element indicating that payment of the invoice has been approved and the data element indicating that payment of the invoice has been authorized are transmitted to the biller independently from one another.

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Advantageously, this provides the biller with information regarding the stage of the payment of the invoice. This is particularly advantageous and allows the accounts receivable department at a biller site to readily determine at which stage an unpaid invoice is being delayed

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and to determine which person of the customer location to contact.

In a non-limiting example of implementation, the second user associated to the customer entity is enabled to authorize payment of the invoice subsequent the data element indicating that payment of the invoice has been approved is received at the biller.

Advantageously, this allows the order in which the stages of the invoice handling process to be effected in a desired order namely the invoice has to be approved prior to being authorized.

The users associated with the customer entity may be resident in a same location, such as a single office or multiple offices in a same building, as well as may reside in geographically remote locations. For example, the first user may reside in New York, NY, USA while the second user may reside in Vancouver, B.C., Canada. The first user has payment approval privileges and the second user has payment authorization privileges.

In a specific example of implementation, the invoice is electronically transmitted over a network. In a first non-limiting example of implementation, the invoice is transmitted via e-mail to the first and second users at the customer entity. In this implementation, the invoice is provided as a data structure including an approval field and an authorization field, the approval and authorization fields being modifiable by the first and second users respectively. In a non-limiting example, a field is provided

allowing the second user to provide payment remittance
information credit card information, an authorization to
debit a bank account, wire transfer information, direct
deposit information or an indication that a check will be
5 mailed.

In a second specific example of implementation, the
invoice is electronically transmitted over the Internet. In
a non-limiting example of implementation, in order to view
10 invoices and other account information, the users associated
with the customer entity log on to a secure web-site using
login names and associated passwords. The account
information is displayed on a graphical user interface on
the customer's computer terminal. Unpaid invoices are
15 displayed with an approval field and an authorization field.
The approval and authorization fields are modifiable by the
first and second users respectively where the first user has
payment approval privileges and the second user has payment
authorization privileges. In a non-limiting example, a field
20 is provided allowing the second user to provide payment
remittance information including credit card information, an
authorization to debit a bank account, wire transfer
information, direct deposit information or an indication
that a check will be mailed.

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In accordance with another broad aspect, the invention
provides a computer readable medium including a program
element executable by a computing apparatus for implementing
the above described method.

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In accordance with a broad aspect, the invention
provides a system implementing the above-described method.

In accordance with another aspect, the invention provides a method for granting payment of an invoice over a network, the invoice having been issued by a biller entity to a customer entity. The method includes transmitting over the network to the biller entity an approval status data element associated to the invoice from a first user associated to the customer entity. The method also includes transmitting over the network to the biller entity an authorization status data element associated to the invoice from a second user associated to the customer entity. Payment of the invoice is granted by the customer entity if the approval status data element indicates that the invoice has been approved and the authorization status data element indicates that the invoice has been authorized.

In a specific implementation, the first user has payment approval privileges, the payment approval privileges being assigned by the customer entity. The second user is distinct from the first user and has payment authorization privileges, the payment authorization privileges being assigned by the customer entity.

In accordance with another aspect, the invention provides a method for handling an invoice over a network, the invoice having been issued by a biller entity to a customer entity. An approval status data element associated to the invoice is received over the network at a biller entity. An authorization status data element associated to the invoice is received over the network at a biller entity. The biller detects the granting of payment of the invoice if the approval status data element indicates that the invoice

has been approved and the authorization status data element indicates that the invoice has been authorized.

5 In a non-limiting example, payment of the invoice is expected at the biller entity when the granting of payment of the invoice has been detected.

10 In a specific implementation, the approval data element is associated to a first user. The approval status data element and an identifier associated with the first user are processed to determine if the first user has payment approval privileges. The detection of the granting of payment is prevented if the first user does not have payment approval privileges. Similarly, the authorization status data element is associated to a second user. The authorization status data element and an identifier associated with the second user are processed to determine if the second user has payment authorization privileges. The detection of the granting of payment is prevented if the second user does not have payment authorization privileges.

25 In accordance with a broad aspect, the invention provides a computer readable medium including a program element executable by a computing apparatus for implementing the above described method.

30 In accordance with a broad aspect, the invention provides a method for electronically presenting and granting payment of invoices. An invoice is generated at a biller and making the invoice electronically available to a customer entity. A plurality of users associated to the customer entity are enabled to complete respective stages of

a multi-stage invoice handling process and transmit data elements indicative that the respective invoices processing stages have been completed. Granting of payment of the invoice is detected at the biller when the data elements indicative that respective invoice processing stages have been completed are received at the biller.

In a non-limiting example of implementation, the multi-stage invoice handling process includes a first stage and a second stage. A first user is enabled to complete the first stage and a second user is enabled to complete the second stage subsequent the data element indicating that the first has been completed is received at the biller.

Advantageously, this allows the stages of the invoice handling process to be effected in a desired order.

Other aspects and features of the present invention will become apparent to those ordinarily skilled in the art upon review of the following description of specific embodiments of the invention in conjunction with the accompanying figures.

Brief Description of the Drawings

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Fig. 1 is a block diagram of an electronic invoice presentment and payment remittance system in accordance with an embodiment of the invention, including a biller computing system 116, a network 106, and a customer computing system 150 having a plurality of computing units;

Fig. 2a is a block diagram depicting one of the customer computing units shown in figure 1 in accordance with an embodiment of the invention;

5 Fig. 2b is a block diagram depicting the biller computing system 116 shown in figure 1 in accordance with an embodiment of the invention;

10 Figure 3 is a flow diagram of a registration phase for use in connection with a process for electronically presenting and granting payment of invoices in accordance with an example of implementation of the invention;

15 Fig. 4 is a flow diagram of the process for electronically presenting and granting payment of invoices in accordance with a specific example of implementation of the invention;

20 Fig. 5a and 5b is a non-limiting example of implementation of a graphical user interface for presenting a plurality of unpaid invoices associated to a customer entity.

25 In the drawings, embodiments of the invention are illustrated by way of example. It is to be expressly understood that the description and drawings are only for purposes of illustration and as an aid to understanding, and are not intended to be a definition of the limits of the invention.

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Detailed Description

The method and system for processing invoices provide multi-stage invoice handling capabilities. The multi-stage invoice handling process allows different users associated to a customer entity to be given different responsibilities in the handling of an invoice. In the example described, the multi-stage invoice handling process includes two stages, namely an approval stage wherein an invoice is approved for payment by a person permitted to do so, followed by an authorization stage wherein the actual payment is authorized to be made under the authority of a second person permitted to do so. It will be appreciated that a multi-stage invoice handling process having in excess of two stages remains within the scope of the invention.

Fig. 1 shows an electronic invoice presentment and payment remittance system 100 in accordance with a specific implementation. The system 100 allows a customer entity 102 to view the state of its accounts payable with regards to a specific biller 104 and to issue payment instructions to that specific biller 104. The system 100 also allows the specific biller 104 to receive information regarding the payment stage of a certain invoice. The system 100 includes a biller computing system 116 and a customer computing system 150 interconnected through a network 106. The biller computing system 116 and the customer computing system 150 include tools for facilitating online commerce transactions between the customer entity 102 and the biller entity 104.

The network 106 is a data communication network interconnecting the customer computing system 150 and the biller computing system 116. In a specific example of

implementation, the network is a public network. In the illustrated implementation, the data communication network 106 is embodied in the Internet. It is to be noted that the data communication network 106 may be implemented as a network other than the Internet such as an interactive television (ITV) network, a private network such as an Intranet or any other suitable network.

The customer computing system 150 comprises a plurality of computing units 112 114, each associated to a respective user 108, 110. The computing units 112 114 are generally in the form of personal computers, although other types of computing units may be used including laptops, notebooks, hand-held computers, set top boxes, and the likes. The plurality of computing units 112 114 may be connected to one another over an Intranet or may be stand-alone computing units. Each of the computing units 112 114 is provided with a connection to the network 106. The connection may be a permanent connection through a server at the customer's premises, or alternatively, a given computing unit may occasionally connect to the network 106 through the use of a dial-up connection using suitable devices such as a modem for example. For the purpose of simplicity, the example described herein below considers a customer computing system 150 including two customer computing units 112 114 each being respectively associated to a first user 108 and a second user 110. It will be readily appreciated that a customer computing system 150 including in excess of two customer-computing units remains within the invention.

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Figure 2a depicts a block diagram of customer computing unit 112. The structure and functionality of customer

computing unit 114 is identical to that of customer computing unit 112 and as such will not be described. As shown, the customer computing unit 112 comprises a processor 210, a memory 220 and a network I/O 224 (input/output) for
 5 accessing the network 106. The network I/O 224 can be implemented, for example, as a dial-up modem or as a permanent network connection. The processor 210 is adapted to execute program elements stored in the memory 220 for performing certain functions. More specifically, the
 10 customer computing unit 112 runs an operating system 218 that supports multiple applications. The operating system 218 is preferably a multitasking operating system that allows simultaneous execution of multiple applications in a graphical windowing environment. The memory 220 also
 15 includes a browser program element 222. The browser program element 222 when launched is executed by the processor 210 atop the operating system 218. The customer computer unit 112 may also include e-mail software components (not shown) as well as additional components and modules. These have
 20 been omitted from the description for the purpose of clarity.

The biller computing system 116 includes one or more computer servers and one or more computing apparatuses. The
 25 system includes program elements allowing the biller entity 104 to manage customer invoices and to provide electronic processing of invoices. The biller computing system 116 may also include modules for connection to a payment network 152 (shown in Figure 1). The payment network 152 represents
 30 existing networks that presently accommodate transactions for credit cards, debit cards, checks and other types of financial payment processes. A description of the payment

network 152 and of the interaction of the biller computing system 116 with the payment network 152 is not necessary for the understanding of the present invention and as such will not be described.

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Figure 2b shows a block diagram depicting a schematic diagram of the biller computing system 116. As depicted, the biller computing system 116 comprises a processor 208, a memory 200 and a network I/O 226 (input/output) for connection to the network 106. The network I/O 226 is preferably implemented as a permanent network connection although dial up connections may be suitable in certain embodiments. For example, if the biller computing system 116 interacts with the customer computing system 150 via e-mail, then a dial-up connection may be suitable.

The processor 208 is adapted to execute program elements 204 stored in the memory 200 for performing various functions. The memory 200 also has a data portion 206 including a customer database 202 and an invoice database 203. It will be readily appreciated that the biller computing system 116 may include additional components and modules. These have been omitted from the description for the purpose of clarity.

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The customer database 202 includes information pertaining to the customers of the biller entity. In a non-limiting implementation, for each customer entity, an entry is provided including various information data elements associated to the customer entity. Amongst others, each entry includes a plurality of records, each record including a user identifier with a corresponding password. In

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addition, each user identifier is associated to respective privileges defining stages which the user is permitted to complete. In a specific example, the customer database includes a first user having payment approval privileges and a second user having payment authorization privileges. The table below is a representation of an entry in the customer database for customer ABC INC. As shown, ABC INC. has five records for users (User1, User2, User3, User4, User5). User1 and User4 have payment approval privileges and User2 has payment authorization privileges. User3 has neither payment approval nor payment authorization privileges. User5 has both payment approval and payment authorization privileges.

Customer ABC Inc. : User list		
User name	Password	Privileges
User1	1234	Approval: Yes Authorization: No
User2	9876	Approval: No Authorization: Yes
User3	7656	Approval: No Authorization: No
User4	5656	Approval: Yes Authorization: No
User5	4321	Approval: Yes Authorization: Yes

As a variant, invoices issued by the biller are assigned to different categories. For example, the categories may be based on the type of product/service offered by the biller or on the amounts of the invoice

amongst others. In this variant, each user identifier is associated to respective privileges defining stages which the user is permitted to complete for an invoice in a given category. The table below is a representation of an entry in the customer database for customer DEF INC. providing user privileges on the basis of category. As shown, DEF INC. has two records for users (User1, User2). User1 has payment approval privileges for invoices in the category animal stock only. User2 has payment approval privileges for invoices in the commodities category, the luxury items category and the animal stock category. User2 has payment authorization privileges for invoices in the luxury items category and the animal stock category.

Customer DEF Inc. : User list			
User name	Password	Category	Privileges
User1	3434	Commodities	Approval: No Authorization: No
		Luxury items	Approval: No Authorization: No
		Animal Stock	Approval: Yes Authorization: No
User2	2357	Commodities	Approval: Yes Authorization: No
		Luxury items	Approval: Yes Authorization: Yes
		Animal Stock	Approval: Yes Authorization: Yes

As another variant, the system provides a plurality of levels of permission. For example, regarding approval privileges, a first user at the customer site is permitted to approve invoices of up to a first amount limit; a second person is permitted to approve invoices of up a second amount limit, the second amount limit being higher than the first amount limit; a third person is permitted to approve invoices of up a third amount limit, the third amount limit being greater than the second amount limit; and so on. Similarly, a plurality of levels of permissions may be provided for the other stages of the invoice handling process. The number of levels of permissions may vary from one customer to the other without detracting on the spirit of the invention and will generally be determined on the basis of the organizational style of the customer entity. Advantageously, the use of a plurality of levels of permissions allows the invoice presentment and payment remittance system to be better suited to large business environments. More specifically, it is common in large business environments to delegate to senior administrators the responsibility of approving invoices for small expenses such as paper supplies for example. Larger expenses however generally require the authorization of a director or vice president in a business. This feature permits the two systems to be integrated such as automatically differentiate between the two levels of permissions.

It is to be expressly understood that other formats for a customer database 202 are possible without detracting from the spirit of the invention.

The user identifiers and the privileges associated to each are provided by the customer entity 102 to the biller 104 via a registration process.

The invoice database 203 includes for each customer in the customer database 202 a list of invoice entries associated to invoices that are not fully paid. Each invoice entry includes an invoice identifier, an invoice amount, an unpaid amount and a plurality of status data elements defining the processing stage of the invoice. Other data elements may also be present without detracting from the spirit of the invention. In a non-limiting example of implementation, a given invoice is associated to an approval status data element and an authorization status data element. The authorization status data element is indicative of either one of payment authorization and absence of payment authorization by the customer entity. The approval status data element is indicative of either one of payment approval and absence of payment approval by the customer entity. As a variant, the approval status data element is associated to an amount data element indicative of an amount of the invoice which has been approved for payment.

The memory also includes a program element 204 for operating on the data 206 for managing a customer's account as well as tools to allow the biller 104 to manage customer invoices in the invoice database 203 and to provide electronic handling of invoice.

A typical interaction will better illustrate the functioning of the electronic invoice presentment and

payment remittance system 100 and of the program elements 204.

Prior to the use of the electronic invoice presentment and payment remittance system 100, the customer entity 102 registers with the biller entity 104. The registration between the customer entity and the biller entity may be effected over the network 106 or by providing a form to be transmitted by mail, fax or other suitable transmission methods. Registration over the network 106 through a web-based interface will be described herein below with reference to Figure 3 of the drawings. Registration through the other methods will be readily apparent to the reader skilled in the art. At step 300, a user at the customer site accesses a designated registration website associated with the biller through a network link by providing a network address. This action submits a request for registration of a new customer with the biller entity 104. In response, the customer entity system downloads a registration module implemented by program element 204 (shown in figure 2) from the biller computing system 116 to a customer computing unit. The registration module automatically launches to aid the user at the customer site in the completion of the online application for registration. In a specific example of implementation, the registration module is configured to provide step-by-step instructions. At step 302, the user at the customer site fills out a form including various fields related to personal and financial matters, such as company name, address, telephone number, credit card numbers, bank affiliations, and the likes. The user also provides data related to preferred payment methods, a list of authorized user identifiers and passwords as well as the privileges

associated to each user identifier. Some of these information fields may be omitted and others added without detracting from the spirit of the invention. At this stage, the user can enable a first user associated to a user identifier to approve invoices and a second user associated to a user identifier to authorize invoices. In order to increase security, the user requesting registration at the customer site provides an indication that he (she) is permitted to register the customer with the biller. This may be effected by providing a pre-arranged password at the time of registration, by providing a signed document attesting to this, or by some other means. Once the application for registration is completed at step 303, the application for registration is submitted to the biller entity 104. The registration module facilitates this communication between the customer entity 102 and the biller entity 104. The application form itself, or the registration module, contains the necessary routing information to direct the application over the network 106 to the biller computing system 116. At step 308, the biller entity 104 reviews the application for registration to determine whether the customer entity 102 should be permitted to register and whether any information is missing. If registration is denied, for example information is missing, the customer entity is already registered or the user requesting registration does not have the permission to do so, at step 312 the biller entity 104 returns a message to the customer entity 102 indicating that the application for registration has been denied. Conversely, if the application is granted, the biller entity 104 may return a message indicating that the application for registration is successful.

Assuming that the application for registration is granted, at step 310 the biller computing system 116 at the biller entity 104 creates a customer account entry in the customer database 202 including a customer identifier and a plurality of records. Each record associated to the customer identifier includes an authorized user name, password and associated privileges. In a specific implementation, the customer entity entry in the customer database includes at least one record where a first user is associated with payment approval privileges and a second record where a second user is associated with payment authorization privileges. A link between the customer account entry in the customer database 202 is associated to an entry in the invoice database 203. In a specific implementation, the program element further provides functionality for allowing a user at the consumer entity to modify the entries in the consumer database such as to add/remove authorized user identifiers, modify passwords, modify privileges and so on. Following this, the registered customer may handle invoices over the network 106.

Figure 4 is a flow diagram of a process for electronically presenting and granting payment of invoices in accordance with specific examples of implementation of the invention.

With reference to figure 4, at step 400, the biller computing system 116 generates an invoice at the biller entity. The invoice is stored in the invoice database 203 and is associated with a customer account entry in the customer database 202. The status data elements defining the processing stage of the invoice are also set at this stage.

In a non-limiting example, the authorization status data element is indicative of an absence of payment authorization and the approval status data element is indicative of an absence of payment approval.

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At step 402, the invoice is made electronically available to the customer entity. In a first non-limiting example of implementation, the invoice is transmitted via e-mail to the first and second users at the customer entity.

10 In this implementation, the invoice is provided as a data structure including an approval field and an authorization field, the approval and authorization fields being modifiable by the first and second users respectively. In a non-limiting example, a field is provided allowing the
15 second user to provide payment remittance information credit card information, an authorization to debit a bank account, wire transfer information, direct deposit information or an indication that a check will be mailed.

20 In a second non-limiting example of implementation, the invoice is made electronically available over network 106 by providing a designated website. In a non-limiting example, the website is a secure website implementing an electronic invoice payment system. Authorized users associated with the
25 customer entity can access the site in order to perform designated tasks.

In a second specific example of implementation, the invoice is electronically transmitted over the Internet. In
30 a non-limiting example of implementation, in order to view invoices and other account information, the users associated with the customer entity log on to a secure web-site using

login names and associated passwords. The account information is displayed on a graphical user interface on the customer's computer terminal. Each unpaid invoice is displayed with an approval field and an authorization field.

5 The approval and authorization fields are modifiable by the first and second users respectively where the first user has payment approval privileges and the second user has payment authorization privileges. In a non-limiting example, a field is provided allowing the second user to provide payment remittance information including credit card information, an
10 authorization to debit a bank account, wire transfer information, direct deposit information or an indication that a check will be mailed.

15 In a typical interaction, users associated to the customer entity access a designated website through a network link by providing a network address in order to view invoices and other account information. The users log on to the secure website by providing login information including
20 a customer identifier, a login name and a password. The biller computing system received the login information and processes it with respect to the customer database 202. More specifically, the processor 208 accesses the customer database 202 to locate the entry corresponding to the
25 customer identifier. If no corresponding entry is found, an error message is returned to the customer entity. If a corresponding entry is found, the processor 208 attempts to locate a record corresponding to the login name provided. If
30 no corresponding record is found, an error message is returned to the user. If a corresponding record is found, the password in the record is compared to the password provided in the login information. If a match is not found,

an error message is returned to the user. If a match is found, the user is successfully identified.

Once a user is successfully identified, the account information in the invoice database 203 corresponding to the customer identifier is transmitted to the user's terminal for display on a graphical user interface at the user's computer terminal. The graphical user interface provides the user with the ability to view one or more outstanding invoices associated with the biller entity 104. Figures 5a and 5b of the drawings depicts a graphical user interface showing 3 unpaid invoices in a table 504. Each invoice is depicted as a row 506 in the table 504, each invoice being associated to various information data elements describing characteristics of the invoice. In a non-limiting example, the graphical user interface provides a link for accessing an electronic copy of the complete invoice. In the graphical user interface shown in Figures 5a and 5b, this is effected by providing a link associated to the invoice number in the invoice number column 508. When activating a link in the invoice number column 508, a corresponding invoice is displayed to the user at the customer entity site. In a non-limiting implementation, each invoice is provided with a selection column 500 allowing the user to approve or to authorize payment of an invoice by checking a box.

Continuing the typical interaction, at step 404, a first user accesses the designated website in the manner described above, where the first user has payment approval privileges in the customer database but does not have payment authorization privileges. Once the first user has

viewed a certain invoice there is the choice of approving the invoice for payment or authorizing the payment to take place or to do none of the above.

5 In a first embodiment, the first user enters in the selection column 500 instructions to approve the invoice by checking a box or filling in a field. At step 408, the instructions are sent to the biller entity over the network 106. The biller entity processes the instructions received
10 from the first user. More specifically, the biller system determines whether the first user was associated to the appropriate permissions in the customer database 202 to be permitted to issue the instructions. For example, if the first user checks the box associated to payment
15 authorization, the biller system will check in the customer database if the first user has payment authorization privileges. Since the first user has payment approval privileges but does not have payment authorization privileges, the biller system will return an error message
20 to the first user indicating that the instructions are being disregarded. If the first user checks the box associated to payment approval, the biller system will check in the customer database if the first user has payment approval privileges. Since the first user has payment approval
25 privileges, the biller system will mark the invoice in the invoice database as being approved.

In a second embodiment, the graphical user interface is conditioned on the basis of the privileges associated to the
30 user. For example, if the user accessing the system has payment approval privileges, then only the field(s) associated to the approval of the invoice is (are) active

with the other fields being deactivated or alternatively being completely absent. The first user enters in the selection column 500 instructions to approve an invoice by checking a box. At step 408, the instructions are sent to the biller entity over the network 106. The biller entity processes the instructions received from the first user. In this embodiment, the biller entity processes the instructions received from the first user to modify the status data element associated to the invoice in the invoice database accordingly. However, since only the boxes associated to permitted actions are active, the biller system, upon receipt of an instruction, does not need to check if the first user was permitted to issue payment approval if this invoice.

Continuing the typical interaction, at step 406, a second user accesses the designated website in the manner described above, where the second user has payment authorization privileges in the customer database but does not have payment approval privileges. It is to be noted that in this specific example of implementation, the second user can access the designated website prior to, simultaneously with or subsequent to the first user. For each invoice, the second user is presented with the fields for approving the invoice for payment, authorizing the payment to take place or to do none of the above.

In a variant, the second user associated to the customer entity is enabled to authorize payment of the invoice when the second user is associated to authorization privileges and the approval status data element is indicative of payment approval. Accordingly, in this

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receipt of an instruction, does not need to check if the second user was permitted to issue payment authorization of the invoice.

5 In a non-limiting example of implementation, subsequent to the second user issuing a payment authorization instruction, a payment module automatically launches to aid the second user in the completion of the online payment authorization stage 414. In a specific example of
10 implementation, the payment module is configured to provide step-by-step instructions. The second user fills out a form including various fields related to payment instructions. The authorization stage may include providing the biller with a credit card number, with an authorization to debit a
15 bank account, wire transfer information, direct deposit information or simply an indication that the check will be mailed on a certain day. The information regarding the payment instructions is submitted to the biller entity over the network 106. The biller entity receives the payment
20 instructions. Alternatively, default payment instructions may be provided by the customer at the time of registration or subsequently indicate a default manner of paying invoices. In this alternative, step 414 may be omitted.

25 At step 411, the biller computing unit verifies if an invoice in the invoice database has been both approved and authorized. In the affirmative, the biller computing system 116 processes or waits for payment of the invoice in a conventional manner on the basis of the payment instructions
30 provided by the customer.

Although the detailed description describes extensively a system for electronically presenting and granting payment of invoices where the invoices are accessible via a web based interface, other embodiments are possible. For example, invoices may be sent to first and second users at the customer entity via electronic mail, the first user having payment approval privileges and the second user having payment authorization privileges. At the customer site, the first and second users open the received electronic mail and the account information contained therein is displayed on a graphical user interface on the users' computer terminals. The processing of the invoice at the biller site may be effected in a similar fashion as that described above. In the case of the transmission of an invoice by e-mail, having a graphical user interface conditioned on the basis of the privileges associated to the users to whom the e-mail is sent will result in fewer e-mail transmissions between the customer entity and the biller.

Although the present invention has been described in considerable detail with reference to certain preferred embodiments thereof, variations and refinements are possible without departing from the spirit of the invention. Therefore, only the appended claims and their equivalents should limit the scope of the invention.